- 20. An isolated polypeptide comprising an amino acid sequence having greater than 91% sequence identity to the human patched-2 polypeptide of FIG. 1 (SEQ ID NO:2) of U. S. Patent 6,348,575 as measured by BLAST-2 set to the default parameters, and which binds to hedgehog.
- 21. The polypeptide of claim 20 wherein the sequence identity is greater than 92%.
- 22. The polypeptide of claim 20 wherein the sequence identity is greater than 93%.
- 23. The polypeptide of claim 20 wherein the sequence identity is greater than 95%.
- 24. An isolated polypeptide comprising an amino acid sequence having greater than 91% sequence identity to the human patched-2 polypeptide of FIG. 1 (SEQ ID NO:2) of U. S. Patent 6,348,575 as measured by BLAST-2 set to the default parameters, and which binds to Smoothened.
- 25. The polypeptide of claim 20 wherein the sequence identity is greater than 92%.
- 26. The polypeptide of claim 20 wherein the sequence identity is greater than 93%.
- 27. The polypeptide of claim 20 wherein the sequence identity is greater than 95%.

- 28. A chimeric molecule comprising the polypeptide of any one of claims 18, 19, 20 or 24 fused to a heterologous amino acid sequence.
- 29. The chimeric molecule of claim 28 wherein said heterologous amino acid sequence is an epitope tag sequence.
- 30. The chimeric molecule of claim 29 wherein said heterologous amino acid sequence is a constant region of an immunoglobulin.
- 31. The polypeptide of claim 24 wherein the sequence identity is greater than 92%.
- 32. The polypeptide of claim 24 wherein the sequence identity is greater than 93%.
- 33. The polypeptide of claim 24 wherein the sequence identity is greater than 95%.
- 34. Isolated native sequence human patched-2 polypept de comprising the amino acid sequence of SEQ ID NO:1.
- 35. Isolated native sequence human patched-2 polypeptide comprising at least 1040 amino acids of SEQ ID NO:1.

- 36. Isolated native sequence human patched-2 polypeptide comprising amino acid residues 1 to 1142 of SEQ ID NO:1.
- 37. Isolated native sequence human patched-2 polypeptide comprising an amino acid sequence encoded by the nucleotide sequence of SEQ ID NO:2.
- 38. Isolated native sequence human patched-2 polypeptide comprising an amino acid sequence encoded by the nucleotide sequence of SEQ ID NO:5.
- 39. Isolated native sequence human patched 2 polypeptide comprising at least a substantial part of the amino acid sequence submitted to CenBank under protein id no AAD17260.1.
- 40. An isolated polypeptide comprising an amino acid sequence having greater than 91% identity to the human patched-2 polypeptide of SEQ ID NO:1.
- 41. An isolated polypeptide comprising an amino acid sequence having greater than 91% identity to 1040 amino acid residues of SEQ ID NO. 1.
- 42. The isolated polypeptide according to any one of claims 40 or 41, wherein said identity is measured by the BLAST algorithm as described in Karlin and Altschul, PNAS USA, 90:5873-5787 (1993).

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43. A chimeric molecule comprising the polypeptide of any one of claims 34-41 fused to enzyme or protein.--